

chain nodes:

15 16 17 18 19 20 21 22 23 24 25 26 28 29 32

ring nodes:

1 2 3 4 5 6 7 8 9 10 11 12 13 14

chain bonds:

4-24 7-13 8-19 10-16 10-17 11-20 13-18 14-15 14-32 20-21 20-22 20-23 24-25 24-26 28-29 ring bonds :

1-2 1-6 2-3 2-7 3-4 3-9 4-5 5-6 7-8 8-9 10-11 10-14 11-12 12-13 13-14 exact/norm bonds :

2-7 3-9 4-24 7-8 7-13 8-9 10-11 10-14 10-16 11-12 12-13 13-14 14-15 14-32 20-23 24-25 28-29 exact bonds :

8-19 10-17 11-20 13-18 20-21 20-22 24-26

normalized bonds:

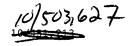
1-2 1-6 2-3 3-4 4-5 5-6

G1:C,O

G2:CN,Ak,[*1]

Match level:

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS16:CLASS17:CLASS18:CLASS19:CLASS20:CLASS21:CLASS23:CLASS23:CLASS25:CLASS25:CLASS26:CLASS28:CLASS29:CLAS



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PASSWORD:

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=> file reg

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 1.35 1.56

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31 DEC 2006 HIGHEST RN 916581-15-2 STRUCTURE FILE UPDATES: DICTIONARY FILE UPDATES: 31 DEC 2006 HIGHEST RN 916581-15-2

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TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

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http://www.cas.org/ONLINE/UG/regprops.html

Uploading C:\Program Files\Stnexp\Queries\10530627amdb.str

L4 . STRUCTURE UPLOADED

=> d 14

L4 HAS NO ANSWERS

STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s 14 sss sam

SAMPLE SEARCH INITIATED 13:16:46 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED -30 TO ITERATE

100.0% PROCESSED

30 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

ONLINE **COMPLETE** FULL FILE PROJECTIONS: **COMPLETE** BATCH 272 TO 928 PROJECTED ITERATIONS:

PROJECTED ANSWERS: 0 TO

McIntosh

10/503,622

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L5
              0 SEA SSS SAM L4
=> s 14 full
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100.0% PROCESSED
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SEARCH TIME: 00.00.01
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=> file caplus
COST IN U.S. DOLLARS
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                                                                    TOTAL
                                                        ENTRY
                                                                  SESSION
FULL ESTIMATED COST
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http://www.cas.org/infopolicy.html
=> s 16
L7
             4 L6
=> d bib abs hitstr 1-4 17
     ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
     2006:1206880 CAPLUS
ÐΝ
     145:505705
     Preparation of 6-hydrazinopurine 2'-methyl ribonucleosides and nucleotides
ТT
     as antiviral agents for treatment of HCV
                                                        USU4/18135
IN
     Gunic, Esmir; Rong, Frank
PΑ
     Valeant Research & Development, USA
     PCT Int. Appl., 21pp.
SO
     CODEN: PIXXD2
DT
     Patent
     English
LA
FAN.CNT 1
                                              APPLICATION NO.
     PATENT NO.
                          KIND
                                 DATE
                                                                      DATE
     WO 2006122207
                                 20061116
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                                                                      20060510
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SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,

GE, GH, GM, HR, HU, ID,

KZ, LC, LK, LR, LS, LT, MZ, NA, NG, NI, NO, NZ,

KG, KZ, MD, RU, TJ,

TМ

2**0**050510

McIntosh

PRAI US 2005-679780P

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB 6-Hydrazinopurine 2'-Me ribonucleosides and nucleotides I, wherein Z is N(Me)NHSO2Me, N(Me)NH2; R is H, acyl, substituted acyl; R1 = H, acyl, substituted phosphate were prepared which are useful as inhibitors of hepatitis C virus. Thus, prodrug nucleoside II [Z = N(Me)NHSO2Me, R = H] was prepared and tested in vitro for treatment of HCV (EC50 = 24 nM).

IT 565435-10-1 565435-11-2 565435-17-8

915023-76-6

RL: BSU (Biological study, unclassified); BIOL (Biological study) (preparation of 6-hydrazinopurine 2'-Me ribonucleosides and nucleotides as antiviral agents for treatment of HCV)

RN 565435-10-1 CAPLUS

CN Inosine, 2'-C-methyl-, hydrazone (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 565435-11-2 CAPLUS

N Inosine, 2'-C-methyl-, 2,2-dimethylhydrazone (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 565435-17-8 CAPLUS

CN Methanesulfonic acid, 2-{9-(2-C-methyl-β-D-ribofuranosyl)-9H-purin-6yl]hydrazide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

915023-76-6 CAPLUS RN INDEX NAME NOT YET ASSIGNED CN

Absolute stereochemistry.

915023-75-5P

RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation of 6-hydrazinopurine 2'-Me ribonucleosides and nucleotides as antiviral agents for treatment of HCV) 915023-75-5 CAPLUS

RN

INDEX NAME NOT YET ASSIGNED CN

Absolute stereochemistry.

915023-74-4P ΙT

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of 6-hydrazinopurine 2'-Me ribonucleosides and nucleotides as antiviral agents for treatment of HCV)

RN 915023-74-4 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN L7

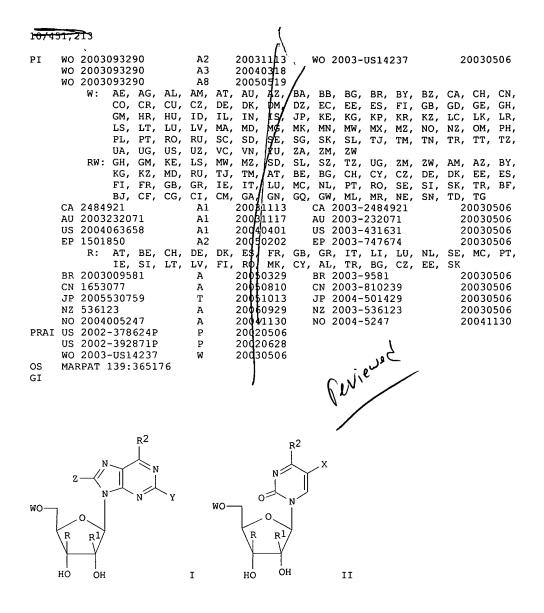
2006:1206158 CAPLUS

```
DN
     145:500034
     Phosphoramidate prodrugs for treatment of viral infection
TΙ
     Gunic, Esmir; Chow, Suetying; Rong, Frank
TN
     Valeant Research & Development, USA
PA
so
     PCT Int. Appl., 147pp.
     CODEN: PIXXD2
DT
     Patent
LA
     English
FAN.CNT 1
     PATENT NO.
                            KIND
                                     DATE
                                                  APPLICATION NO.
                                                                             DATE
                            ____
     WO 2006121820
                                    2006111$
PΤ
                             A1
                                                  WO 2006-US17314
                                                                             20060505
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              KZ, LC, LK,
                            LR, LS, LT,
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              SG, SK, SL,
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              VN, YU, ZA, ZM, ZW
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              KG, KZ, MD, RU, TJ, TM
PRAI US 2005-678636P
                             Р
                                     20050505
     US 2005-748034P
                             Р
                                    200|51206
     The invention concerns 2'-Me rtbonucleotide phosphoramidates which are
     neutral prodrugs which are converted in vivo to 2'- Me ribonucleotide
     triphosphates. These compds. are useful in the treatment of viral
     infection. Of particular interest are prodrugs of a
     methylsulfonylhydrazinyl purine 2'-Me nucleotide triphosphate: 2'-methyl-N6-alkyl-N6- (N-methylsulfonamide) ATP and its 2-amino derivative
IT
     914911-90-3
     RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
      (Biological study); USES (Uses)
         (phosphoramidate prodrugs for treatment of viral infection)
RN
     914911-90-3 CAPLUS
      \label{thm:condition} Guanosine, \ 2'-C-methyl-, \ 6-[(methylsulfonyl)hydrazone], \ 5'-[4-chlorophenyl] 
CN
      (2-methoxy-1,1-dimethy1-2-oxoethy1)phosphoramidate] (9CI) (CA INDEX NAME)
```

Absolute stereochemistry.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
T.7
     ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
AN
     2003:892793 CAPLUS
     139:365176
DN
ΤI
     Preparation of nucleoside derivatives for treating hepatitis C virus
     infection
TN
     Roberts, Christopher Don; Dyatkina, Natalia B.; Keicher, Jesse D.; Liehr,
     Sebastian Johannes Reinhard; Hanson, Eric Jason
     Genelabs Technologies, Inc., USA
SO
     PCT Int. Appl., 182 pp.
     CODEN: PIXXD2
DТ
     Patent
LA
     English
FAN.CNT 1
     PATENT NO.
                         KIND
                                DATE
                                             APPLICATION NO.
                                                                    DATE
```



AB Nucleosides I-III, wherein R and R1 are independently H, alkyl, alkenyl, alkynyl, provided that R and R1 are not both H; R2 is alkyl, cycloalkyl, alkenyl, alkynyl, acylamino, guanidino, amidino, thioacylamino, OH, alkoxy, halo, nitro, aryl, heteroaryl, substituted amine; W is H, phosphate, phosphonate, acyl, alkyl, sulfonate, lipid, amino acid, sugar residue, peptide, cholesterol; X is H, halo, alkyl, substituted amine; Y is H, halo, OH, alkylthio, substituted amine; Z is H, halo, OH, alkyl, substituted amine; T is nucleobase, were prepared as HCV RNA polymerase inhibitors and for treating hepatitis C virus infections. Thus, 2-(4-amino-pyrrolo[3,2-c]pyridin-1-yl)-5-hydroxymethyl-3-methyltetrahydrofuran-3,4-diol was prepared for treating hepatitis C virus infections (no data). Different kind of formulation such as tablet, capsule, suspension, injectable, and suppository formulation are reported.

IT 565435-10-1P 622379-60-6P 622380-62-5P

RL: IMF (Industrial manufacture); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of nucleoside derivs. for treating hepatitis C virus infection) RN 565435-10-1 CAPLUS Inosine, 2'-C-methyl-, hydrazone (9CI) (CA INDEX NAME) CN

Absolute stereochemistry.

622379-60-6 CAPLUS RN Inosine, 2'-C-methyl-, methylhydrazone (9CI) (CA INDEX NAME) CN

Absolute stereochemistry.

622380-62-5 CAPLUS
3H-Indole-3-acetic acid, 2-[9-(2-C-methyl-β-D-ribofuranosyl)-9H-purin-RN CN 6-yl]hydrazide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN 1.7

2003:591196 CAPLUS AN

139:133790

DN ΤI Preparation of $2'-\beta$ -modified-6-substituted adenosine analogs and their use as antiviral agents

An, Haoyun; Ding, Yili; Shaw, Stephanie; Hong, Zhi ΙN

```
PA Ribapharm Inc., USA
SO PCT Int. Appl., 45 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 4
PATENT NO. KI
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	PATENT NO.					KIND		DATE		APPLICATION NO.						DATE		
																		
PΙ	WO 2003062256				A1 20030731			0731	WO 2002-US34026						20021023			
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			GM,	HR,	ΗU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	ΚP,	KR,	ΚZ,	LC,	LK,	LR,
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			PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TN,	TR,	TT,	TZ,
			UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW						
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			KG,	ΚZ,	MD,	RU,	ΤJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,
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			CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG			
	US	2006183706				A1		2006	0817	US 2006-530627						,20060227		

PRAI US 2002-350296P P 20020117 WO 2002-US34026 W 20021023

Ι

OS MARPAT 139:133790

GI

myapp

AB Various 2'-beta-methyl-6-substituted adenosine analogs I in which Z is selected from the group consisting of an alkyl, an O-alkyl, an alkenyl, an alkynyl, and CN, wherein the alkyl, the alkenyl, or the alkynyl is optionally substituted with a halogen or OH; A is CH or N, and E is C-R6 or N, such that (1) when A is CH then E is C-R6 or N, and (2) when A is N then E is CH; X is NR1R2, NR2NR3R4, NR2N=NR3, NR2N=CHR3, NR2N=O, NR2C(=O)NR3R4, NR2C(=S)NR3R4, NR2C(=NH)NR3R4, NR1C(=O)NR2NR3R4, NR2OR3, ONHC(O)O-alkyl, ONHC(O)O-aryl, ONR3R4, SNR1R2, SONR1R2, or S(O)2NR1R2; wherein R1-R4 are independently H, alkyl, substituted alkyl, O-alkyl, cyclic alkyl, heterocyclic alkyl, alkoxy, alkaryl, aryl, heterocyclic aryl, substituted aryl, acyl, substituted acyl, S(O)2-alkyl, NO, NH2, or OH; and R6 is H, NH2, halogen, N3, NHR1, NHCOR1 NR1R2, NHSO2R1, NHCONHR1, NHCSNHR1, CH2NHR1, CHR1NHR2, NHNH2, CN, alkyl, alkenyl, alkynyl, CH2-aryl, CH2-heterocycle, halogen, OH, or SH; are prepared by conventional and combinatorial library approaches. Contemplated compds. are particularly useful as therapeutic agents, and especially as antiviral agents. Thus, N6-[3-(methylthio)phenyl]-9H-(2'-β-C-methyl-β-D-ribofuranosyl)adenine was prepared and tested in vitro as antiviral agent against influenza virus A, bovine viral diarrhea virus, Hepatitis B virus, HIV-1 virus and human Rhinovirus.

IT 565435-10-1P 565435-11-2P 565435-13-4P 565435-15-6P 565435-16-7P 565435-17-8P

RL: CPN (Combinatorial preparation); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); CMBI (Combinatorial study); PREP (Preparation); USES (Uses)

(preparation of 2'- β -modified-6-substituted adenosine analogs and their use as antiviral agents)

RN 565435-10-1 CAPLUS

CN Inosine, 2'-C-methyl-, hydrazone (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 565435-11-2 CAPLUS

CN Inosine, 2'-C-methyl-, 2,2-dimethylhydrazone (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 565435-13-4 CAPLUS

CN Inosine, 2'-C-methyl-, formylhydrazone (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 565435-15-6 CAPLUS

EN Hydrazinecarboxylic acid, 2-[9-(2-C-methyl-β-D-ribofuranosyl)-9H-purin-6-yl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

10/451,213-

RN 565435-16-7 CAPLUS
CN Acetic acid, 2-[9-(2-C-methyl-β-D-ribofuranosyl)-9H-purin-6yl]hydrazide (9CI) '(CA INDEX NAME)

Absolute stereochemistry.

RN 565435-17-8 CAPLUS
CN Methanesulfonic acid, 2-[9-(2-C-methyl-β-D-ribofuranosyl)-9H-purin-6yl]hydrazide (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 13:10:42 ON 01 JAN 2007)

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L1 STRUCTURE UPLOA L2 0 S L1 SSS SAM

L3 0 S L1

FILE 'REGISTRY' ENTERED AT 13:16:21 ON 01 JAN 2007

L4 STRUCTURE UPLOADED

L5 0 S L4 SSS SAM

L6 12 S L4 FULL

FILE 'CAPLUS' ENTERED AT 13:16:57 ON 01 JAN 2007

L7 4 S L6